## Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

## Reclamation District No. 2096 Wetherbee Lake

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	0.16	11/09/2018 11/09/2018	Richard Willoughby

		D (1) ++							
LM Start		Rating **	Α	Issue No.		1			
LM End		Issue Type +	Ma	Location *		N/A			
Category Earthen Levee				GPS La	atitud	e/Longitude			
Category				Start		End			
Item	Operations & Maintenance						0		
пеш	Manuals o						0		
DWR ID DWR_RD2096_01_s _ 2013_1									
		Comn	nent Cod	de					
		Inspecto	or Comm	nent					
O&M Man	ual is at the	e LMA's office	٠.						

No Photos

Rating \*\* Issue No. Α 2 LM Start Issue Type + Ма Location \* N/A LM End Earthen Levee GPS Latitude/Longitude Category Start End Emergency Supplies & Item Equipment DWR\_RD2096\_01\_s \_ 2013\_2 DWR ID Comment Code

No Photos

Inspector Comment Emergency supplies available.

LM Start		Rating **	Α	Issue No.		4	
LM End		Issue Type +	Ма	Location *		N/A	
Category	Category Earthen Levee GPS Latitude/Long				le/Longitude		
Calegory	У			Start		End	
Item	Flood Pre	lood Preparedness & Training			0		0
item					0		0
DWR ID	DWR_RD2	096_01_s _ 201	3_4				
		Comn	nent Cod	le			
			🛆				

No Photos

Inspector Comment

LMA has a flood response plan in the office. It is recommended that the LMA and interested local volunteers take a flood fight training class in order to refresh their flood fight skills and methods.

\* Location

LS: Land Side N/A: Not Applicable WS: Water Side

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N : Not Inspected/Rated C : Corrected + Issue Type
Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence
En : Enforcement

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

# Reclamation District No. 2096 Wetherbee Lake

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	0.16	11/09/2018 11/09/2018	Richard Willoughby

LM Start	0.00	Rating **	Α	Issue No.	12			
LM End	0.16	Issue Type +	Ma	Location *	LS			
Category	evee	GPS La	atitud	le/Longitude				
Calegory				Start		End		
Item	Vegetatio	า		37.7738	52°	37.771832°		
item				-121.2984	14°	-121.298378°		
DWR ID DWR_RD2096_01_f _ 2018_12								
		Comn	nent Cod	de				
V1 : Contreasements		rass and wee	ds on th	e levee slo	pes	and		
		Inspecto	or Comm	nent				



Looking at typical view of landward slope. (Fall 2018)

LM Start	0.00	Rating **	Α	Issue No.		14
LM End	0.16	Issue Type +	Ma	Location *		WS
Category	evee	GPS Latitude/Longitude				
Calegory	egory					End
Item	Vegetatio	37.7738	52°	37.771832°		
пеш				-121.2984	14°	-121.298378°
DWR ID DWR_RD2096_01_f _ 2018_14						
Comment Code						
V/1 · Contr	al annual a	roop and was	do on th	a lavoa ala	200	and

V1 : Control annual grass and weeds on the levee slopes and easements.

Inspector Comment

## Photo 1 of 1 : FA\_2018\_RD2096\_117\_14\_20181119\_00019.jpg



Looking at typical view of waterward slope. (Fall 2018)

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

## Reclamation District No. 2096 Wetherbee Lake

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	0.16	11/09/2018 11/09/2018	Richard Willoughby

LM Start	<b>0.02</b> Rating ** A/W		Issue No.		15	
LM End	0.02	Issue Type +	Ма	Location *		
Category	Suppleme		GPS Latitude/Longitude			
Calegory				Start		End
Item	DWR UCI	DWR UCIP LMA Responsibility			52°	37.773852°
пеш				-121.2984	13°	-121.298413°
DWR ID	22737					

Comment Code

Inspector Comment FS\_ID:21505

DS\_ID:22737 EP\_NO: N/A

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: - steel walkway to pump platform.- pumping plant and navigation structure area is fenced with gates at north and south

FIELD\_STRUCT\_DESC: 1 of 3: 36-inch drainage discharge pipe of an unknown material through the levee, 3.5 feet below the crown. One concrete cutoff wall. Automatic pumping plant and concrete sump on the landside (LS). Vent pipes on the waterside (WS) shoulder. Concrete headwall and spill box on the WS. Flap gate on the WS end. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 3, December 1968, (HLM 0.03)].

FS Date: 9/10/2013

LM Start	0.02	Rating **	A/W	Issue No.	15 (cont)
LM End	0.02	Issue Type +	Ma	Location *	



WS view: three wooden flap gates for drainage pipes. Concrete headwall at levee slope end.

Photo 2 of 3: UCIP\_FA\_2018\_21505\_36448.jpg



WS view: three air vents for three drainage pipes on levee shoulder.

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

## Reclamation District No. 2096 Wetherbee Lake

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	0.16	11/09/2018 11/09/2018	Richard Willoughby

LM Start	0.02	Rating **	A/W	Issue No.		15 (cont)
LM End	0.02	Issue Type +	Ма	Location *		
Category	Suppleme	ental		GPS Lat	itud	e/Longitude
Calegory				Start		End
Item	DWR UCI	P LMA Respo	nsibility	37.77385	2 °	37.773852°
пеш				-121.29841	3°	-121.298413°
DWR ID	22737					

### Inspector Comment

Comment Code

FS\_ID:21505 DS\_ID:22737 EP\_NO: N/A

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: - steel walkway to pump platform.- pumping plant and navigation structure area is fenced with gates at north and south

FIELD\_STRUCT\_DESC: 1 of 3: 36-inch drainage discharge pipe of an unknown material through the levee, 3.5 feet below the crown. One concrete cutoff wall. Automatic pumping plant and concrete sump on the landside (LS). Vent pipes on the waterside (WS) shoulder. Concrete headwall and spill box on the WS. Flap gate on the WS end. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M

Manual 3, December 1968, (HLM 0.03)].



LS view: automatic pumping plant with three pumps. Steel walkway to pump platform.

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

## Reclamation District No. 2096 Wetherbee Lake

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	0.16	11/09/2018 11/09/2018	Richard Willoughby

LM Start	0.02	Rating **	A/W	Issue No.		16	
LM End	0.02	Issue Type +	Ма	Location *			
Category	Suppleme	ental		GPS Lati	tud	e/Longitude	
Calegory				Start		End	
Item	DWR UCI	P LMA Respo	nsibility	37.77383	5°	37.773835	٥
пеш				-121.29841	)°	-121.298419	٥
DWR ID	22740						

#### Inspector Comment

Comment Code

FS\_ID:21507 DS\_ID:22740 EP\_NO: N/A

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: - steel walkway to pump platform.- pumping plant and navigation structure area is fenced with gates at north and south

FIELD\_STRUCT\_DESC: 2 of 3: 36-inch drainage discharge pipe of an unknown material through the levee, 3.5 feet below the crown. One concrete cutoff wall. Automatic pumping plant and concrete sump on the landside (LS). Vent pipes on the waterside (WS) shoulder. Concrete headwall and spill box on the WS. Flap gate on the WS end. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 3, December 1968, (HLM 0.03)].

LM Start	0.02	Rating **	A/W	Issue No.	16 (cont)
LM End	0.02	Issue Type +	Ma	Location *	



WS view: three wooden flap gates for drainage pipes. Concrete headwall at levee slope end.

Photo 2 of 3: UCIP\_FA\_2018\_21507\_36455.jpg



WS view: three air vents for three drainage pipes on levee shoulder.

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

## Reclamation District No. 2096 Wetherbee Lake

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	0.16	11/09/2018 11/09/2018	Richard Willoughby

LM Start	0.02	Rating **	A/W	Issue No.		16 (cont)
LM End	0.02	Issue Type +	Ма	Location *		
Category	Suppleme	ental		GPS La	titud	e/Longitude
Calegory				Start		End
Item	DWR UCI	P LMA Respo	nsibility	37.77383	5 °	37.773835°
пеш				-121.29841	9°	-121.298419°
DWR ID	22740					·

# Inspector Comment

Comment Code

FS\_ID:21507 DS\_ID:22740 EP\_NO: N/A

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: - steel walkway to pump platform.- pumping plant and navigation structure area is fenced with gates at north and south

FIELD\_STRUCT\_DESC: 2 of 3: 36-inch drainage discharge pipe of an unknown material through the levee, 3.5 feet below the crown. One concrete cutoff wall. Automatic pumping plant and concrete sump on the landside (LS). Vent pipes on the waterside (WS) shoulder. Concrete headwall and spill box on the WS. Flap gate on the WS end. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 3, December 1968, (HLM 0.03)].



LS view: automatic pumping plant with three pumps. Steel walkway to pump platform.

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

## Reclamation District No. 2096 Wetherbee Lake

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	0.16	11/09/2018 11/09/2018	Richard Willoughby

LM Start	0.03	Rating **	A/W	Issue No.		17
LM End	0.03	Issue Type +	Ма	Location *		
Category	Suppleme	ental		GPS Lat	itud	e/Longitude
Calegory				Start		End
Item	DWR UCI	P LMA Respo	nsibility	37.77381	B°	37.773818°
пеш				-121.29842	3°	-121.298423°
DWR ID	22739					

### Inspector Comment

Comment Code

FS\_ID:21508 DS\_ID:22739 EP\_NO: N/A

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: - steel walkway to pump platform.- pumping plant and navigation structure area is fenced with gates at north and south

FIELD\_STRUCT\_DESC: 3 of 3: 36-inch drainage discharge pipe of an unknown material through the levee, 3.5 feet below the crown. One concrete cutoff wall. Automatic pumping plant and concrete sump on the landside (LS). Vent pipes on the waterside (WS) shoulder. Concrete headwall and spill box on the WS. Flap gate on the WS end. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 3, December 1968, (HLM 0.03)].

LM Start	0.03	Rating **	A/W	Issue No.	17 (cont)
LM End	0.03	Issue Type +	Ma	Location *	



WS view: three wooden flap gates for drainage pipes. Concrete headwall at levee slope end.

Photo 2 of 3: UCIP\_FA\_2018\_21508\_36460.jpg



WS view: three air vents for three drainage pipes on levee shoulder.

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

## Reclamation District No. 2096 Wetherbee Lake

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	0.16	11/09/2018 11/09/2018	Richard Willoughby

LM Start	0.03	Rating **	A/W	Issue No.		17 (cont)	
LM End	0.03	Issue Type +	Ма	Location *			
Category	Suppleme	ental		GPS La	tituc	le/Longitude	
Calegory				Start		End	
Item	DWR UCI	IP LMA Respo	onsibility	37.7738 <sup>-</sup>	18 °	37.773818	0
пеш				-121.29842	23 °	-121.298423	0
DWR ID	22739						

# Comment Code

#### Inspector Comment

FS\_ID:21508 DS\_ID:22739 EP\_NO: N/A

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: - steel walkway to pump platform.- pumping plant and navigation structure area is fenced with gates at north and south

end.

FIELD\_STRUCT\_DESC: 3 of 3: 36-inch drainage discharge pipe of an unknown material through the levee, 3.5 feet below the crown. One concrete cutoff wall. Automatic pumping plant and concrete sump on the landside (LS). Vent pipes on the waterside (WS) shoulder. Concrete headwall and spill box on the WS. Flap gate on the WS end. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 3, December 1968, (HLM 0.03)].

FS Date: 9/10/2013



LS view: automatic pumping plant with three pumps. Steel walkway to pump platform.

LM Start	0.06	Rating **	N	Issue No.		9		
LM End	0.06	Issue Type +	Ma	Location *	LS			
Category	Earthen L	evee	GPS Latitude/Longitude					
Category				Start		End		
Item	Trim / Thi	n Trees		37.77334	18°	37.773348°		
пеш				-121.29847	75 °	-121.298475 °		
DWR ID DWR_RD2096_01_s _ 2014_9								
	Comment Code							

T5: Tree stumps.

#### Inspector Comment

Pine tree stump at levee toe.

#### Photo 1 of 1 : FA\_2018\_RD2096\_117\_9\_20180906\_00003.jpg



View of the tree stump at the landside levee toe.

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

## Reclamation District No. 2096 Wetherbee Lake

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	0.16	11/09/2018 11/09/2018	Richard Willoughby

LM Start	0.09	Rating **	A/W	Issue No.		6
LM End	0.09	Issue Type +	Ma	Location *		LS
Category	Earthen L	GPS Latitude/Longitude				
Calegory				Start		End
Item	Animal Co	ontrol		37.7728	91 °	37.772891 °
пеш				-121.2984	54°	-121.298454°
DWR ID DWR_RD2096_01_s _ 2016_6						

#### Comment Code

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

#### Inspector Comment

LMA has effective rodent control program. Monitor this location for possible future activity.



View of the previously rodent infested area on the landside levee slope.

LM Start	0.12	Rating **	М	Issue No.		11	
LM End	0.12	Issue Type +	Ма	Location *	WS		
Category Earthen Levee			GPS Latitude/Longitude				
Calegory				Start		End	
Slope Stability			37.772434°		37.772434°		
item				-121.298433 °		-121.298433 °	
DWR ID	ID DWR_RD2096_01_s _ 2015_11						

#### Comment Code

S3: Repair the levee slope damaged by vehicle traffic and prevent access where possible.

#### Inspector Comment

LMA restricted access but still a regrade and re-compaction of damaged waterside levee slope is required.

LM Start	0.12	Rating **	М	Issue No.	11 (cont)
LM End	0.12	Issue Type +	Ma	Location *	WS

## Photo 1 of 3: FA\_2018\_RD2096\_117\_11\_20180906\_00004.jpg



View of the material placed to prevent vehicles from driving around the gate.

Photo 2 of 3: FA\_2018\_RD2096\_117\_11\_20180906\_00005.jpg



Another view of the material placed to prevent vehicles from driving around the gate. Looking downstream.

\*Location

LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown

\*\* Rating

A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected

U : Unacceptable A/W : Acceptable but Monitor & Maintain

\*\* Rating

A : Acceptable M : Minimally Acceptable Ob : Design & System Obsolescence

En : Enforcement

# Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

# Reclamation District No. 2096 Wetherbee Lake

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	0.16	11/09/2018 11/09/2018	Richard Willoughby

LM Start	0.12	Rating **	М	Issue No.		11 (cont)	
LM End	0.12	Issue Type +	Ma	Location *	WS		
Catagoria Earthen Levee			GPS Latitude/Longitude				
Category				Start		End	
Item	Slope Stability			37.772434°		37.772434°	
item				-121.298433 °		-121.298433°	
DWR ID DWR_RD2096_01_s _ 2015_11							
Comment Code							
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.							
Inspector Comment							
LMA restricted access but still a regrade and re-compaction of damaged waterside levee slope is required.							

# Photo 3 of 3 : FA\_2018\_RD2096\_117\_11\_20180906\_00006.jpg

View of the waterside slope damaged by vehicle.